Federal Democratic Republic of Ethiopia

☞ EDICT OF GOVERNMENT ☜

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ET 299 (2001) (English): EDIBLE SALT - SAMPLING

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ETHIOPIAN
STANDARD

ES 298:2001

(Reaffirmation:2012)

Second edition

Edible salt — S

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Foreword

This Ethiopian Standard has been prepared under the direction of the Technical Committee for Food additives and Contaminats (TC 21) and published by the Ethiopian Standards Agency (ESA).

The standard is a reaffirmation for reprint of the Ethiopian Standard ES 299:2001, Edible salt - sampling, with someeditorial

changes without altering the technical contents in the former text.

Edible salt — Sampling

1 Scope

This Ethiopian Standard specifies the method of sampling procedure to be applied when determining main components in order to assess the food grade quality salt as provided in this standard.

2 Field of application

This method is applicable in the sampling of any type of salt intended for use as food, either pre-packaged or in bulk.

3 Principle

3.1 This method represents variable sampling procedure for mean quality: blended bulk sample analysis.

3.2 A blended bulk sample is produced in such a way that it is representative of the lot or consignment. It is composed of a portion of items drawn from the lot or consignment to be analysed.

3.3 Acceptance criterion is on the basis that the mean value obtained from analysis of those blended bulk samples must comply with the provision in the standard.

4 Equipment

The sampling equipment used should be adapted to the nature of the test to be carried out (for example: sampling by borer, sampling equipment made of chemically inert material, etc.). The container used for collecting the samples should be made of a chemically inert material and should be airtight.

5 Procedure

5.1 Prepackaged salt

Sampling may be carried out by “random sampling” or “systematic sampling”. The choice of the method to be used depends on the nature of the lot (for example if the packages are marked with successive numbers, systematic sampling may be suitable).

5.1.1. Random sampling

Draw the n items from the lot in such a way that each item in the lot has the same chance of being selected.

5.1.2. Systematic sampling

If the N units in the lot have been classified can be numbered from 1 to N, the 1-in-K systematic sampling of n items can be obtained as follows:

- Determine the K values as K=N/n (if K is not an integer, then round to the next integer).

- From the first K items in the lot take one at random and then make every Kth item thereafter.

5.2 Salt in bulk

Here, the lot is fictitiously divided into (strata); a lot with a total mass of m kg is considered to be composed of m/100 items. In this case, it is necessary to draw up a “stratified sampling” plan appropriate to the lot dimension. The samples are selected from all the strata in proportion to the stratum sizes.

Note: Stratified sampling of a population can be divided into different sub populations (called strata) is carried out in such a way that proportion of the sample are drawn form the different stratum.

5.3 Constitution of the sample

5.3.1 The size and the number of items forming the sample depend on the type of salt and the lot magnitude. The minimum size to be taken into account should be in accordance with the following specification according to the circumstances.

- 250 gm of salt in bulk or pre-packaged in more than 1 kg packages.

- One package for pre-packaged salt in 500 gm or 1 kg packages.

5.3.2 Concerning the number of packages to be selected, it shall be in accordance with the following table.

Table – Showing number of packages to be selected for sampling

Lot size(N)	Number of packages to be selected(n)
4 to 50	3
51 to 100	4
101 to 150	5
151 to 300	7
301 and above	10

6 Acceptance criteria

Determine the contents of the essential compositions and quality factors for the iodized common and table salt of at least two test portions of the laboratory samples.

Calculate the average of the results obtained for n test portions of the laboratory samples using:

$$= \sum X/n \qquad (n>2)$$

A lot or a consignment shall be considered acceptable if the following condition is verified:

- ≥ Minimum level specified.

- ≤ Maximum level specified.

7 Sampling Report

The sampling report should contain the following information:

- Type and origin of the salt;
- Alteration of the state of salt;
- Date and place of sampling;
- Lot or consignment number;
- Total mass of lot or consignment;
- Number of items sampled; and
- Name and signature of people who have carried sampling.

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Ethiopian Standards Agency

Organization and Objectives

The Ethiopian Standards Agency (ESA) is the national standards body of Ethiopia established in 2010 based on regulation No. 193/2010.ESA is established due to the restructuring of Quality and Standards Authority of Ethiopia (QSAE) which was established in 1970.

ESA's objectives are:-

- Develop Ethiopian standards and establish a system that enable to check weather goods and services are in compliance with the required standards,
- Facilitate the country's technology transfer through the use of standards,
- Develop national standards for local products and services so as to make them competitive in the international market.

Ethiopian Standards

The Ethiopian Standards are developed by national technical committees which are composed of different stakeholders consisting of educational Institutions, research institutes, government organizations, certification, inspection, and testing organizations, regulatory bodies, consumer association etc. The requirements and/ or recommendations contained in Ethiopian Standards are consensus based that reflects the interest of the TC representatives and also of comments received from the public and other sources. Ethiopian Standards are approved by the National Standardization Council and are kept under continuous review after publication and updated regularly to take account of latest scientific and technological changes.
Orders for all Ethiopian Standards, International Standard and ASTM standards, including electronic versions, should be addressed to the Documentation and Publication Team at the Head office and Branch (Liaisons) offices. A catalogue of Ethiopian Standards is also available freely and can be accessed in from our website.

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